Individual Performance Test #1

Documentation

By:

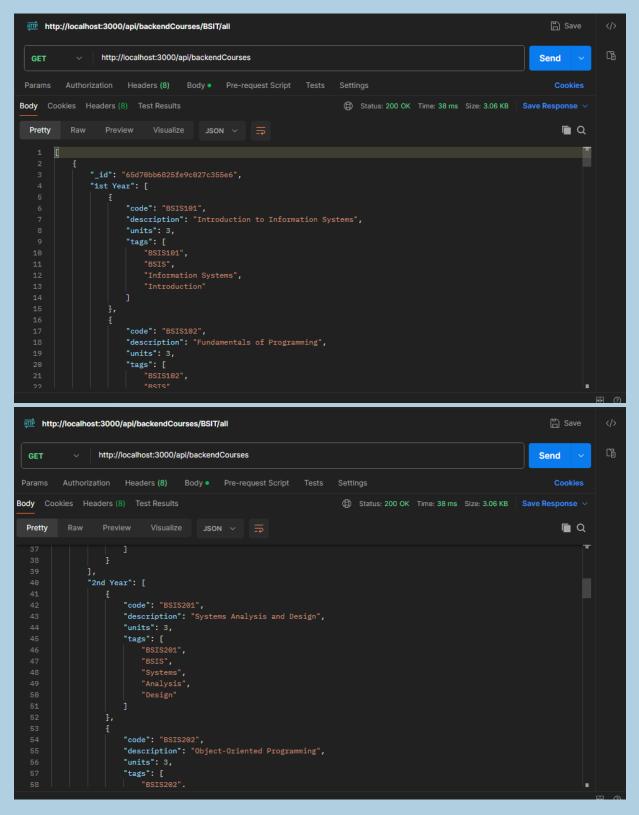
Ola, John Lloyd Cyrus

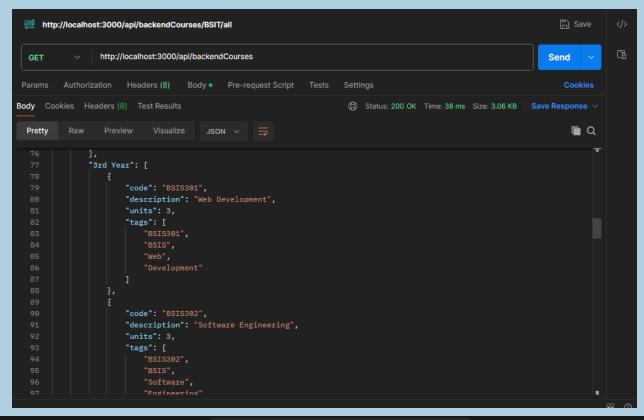
Teacher:

Villi Dane Go

The Hardest thing about this is not the code or the logic but the MongoDB, at first I can't connect it and can't get result from it I started to try it on Feb 20, 2024 but can't make it work. But still to make it and make it run the way I intended.

Here It Retrieve all published backend courses from MongoDB





```
X File Edit Selection View Go Run ···

∠ lloydServer

        MONGODB
                                   Js api.js X {} package.json

∨ CONNECTIONS

√ Iocalhost:27017...

         > admin
         > = class
                                            function justGet(req, res) {
         > a config
                                                 MongoClient.connect(uri)
         > = local
                                                     .then((client) => {
    const db = client.db(dbName);
    const collection = db.collection('courses');
                                                          collection.find({})

∨ PLAYGROUNDS

                                                               .toArray()
                                                                .then((result) => {
         No MongoDB
         playground files
found in the
         workspace.
                                                                 console.error('Error occurred while fetching data:', err);
res.status(500).send('Internal Server Error');
                                                               .finally(() => {
    client.close();
});

∨ HELP AND FEEDBACK

       console.error('Error occurred while connecting to the database:', err);
res.status(500).send('Internal Server Error');
       Fil Extension Documen...
        MongoDB Docume...
        Suggest a Feature
       🗓 Report a Bug
      Create Free Atlas Cl...
                                                 MongoClient.connect(uri)
                                                          const db = client.db(dbName);
const collection = db.collection('courses');
```

```
XI File Edit Selection View Go Run

∠ IloydServer

                               MONGODE
                                                                                                                                 JS api.js
 G

∨ CONNECTIONS

                          ∨ | localhost:27017...
                                                                                                                                                               function justGet(req, res) {
    .then((client) => {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      In the second se
                                 > admin
                                                                                                                                                                                                                                        .finally(() => {
    client.close();
                                 > a class
                                 > a config
                                 > a local
                                                                                                                                                                                                                      res.status(500).send('Internal Server Error');

✓ PLAYGROUNDS

  0
                                 No MongoDB
                                 playground files
                                 found in the
                                 workspace.
                                                  Create New
                                                    Playground
                                                                                                                                     145 > function sortData3(req, res) {
                       \vee HELP AND FEEDBACK

⇔ What's New

                          Extension Documen...
                                                                                                                                                               function BSISunsorted(req, res) {
                            MongoDB Docume...
                             Suggest a Feature
                          💷 Report a Bug
                       Create Free Atlas Cl...
 €$3
                ⊗1∆0 %0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ln 52, Col 1 Spaces: 4 UTF-8 CRLF () JavaScript
```

Here is the sorted data by year level

```
★ File Edit Selection View Go Run ···

∠ IloydServer

                                                                                                                                                                                      JS api.js • {} package.json
        MONGODB
                                    JS api.js > ♦ sortData1 > ♦ then() callback > 戶 $group

∨ CONNECTIONS

Q
                                            function sortData1(req, res) {

√ Iocalhost:27017...

                                                 MongoClient.connect(uri)
        > 🛢 admin
                                                                                                                                                                                                         Williams
         > 🛢 class
                                                           const db = client.db(dbName);
const collection = db.collection('courses');
         > a config
         > = local
                                                           collection.aggregate([
                                                               A

✓ PLAYGROUNDS

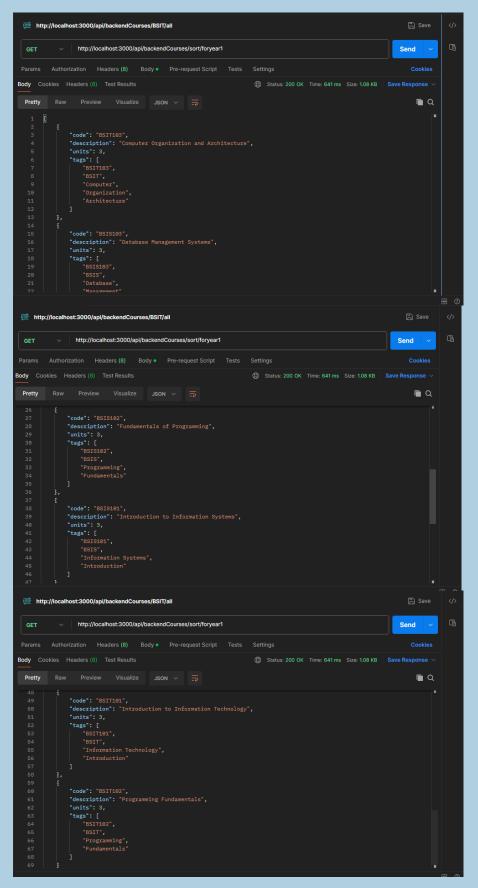
        No MongoDB
                                                                     "units": { $first: "$units" },
"sortedData": { $push: "$1st Year" }
         playground files
         found in the
                                                               ],
// Include
         workspace.
              Create New
                                                                 { $project: { "_id": 0, "code": 1, "description": 1, "units": 1, "sortedData": 1 } },
// Add $sort stage for the final result
              Playground
                                                                 { Sunwind: "$sortedData" },
{ $sort: { "sortedData.description": 1 } },
                                                                 {    $group: {

✓ HELP AND FEEDBACK

                                                                    group: {
    _id: null,
    "result": { $push: "$sortedData" },
    "code": { $first: "$code" },
    "description": { $first: "$description" },
    "units": { $first: "$units" },

⇔ What's New

       Extension Documen...
       MongoDB Docume...
        Suggest a Feature
       🗓 Report a Bug
                                                           ]).toArray()
       Create Free Atlas Cl...
                                                                .then((result) => {
× ⊗1∆0 ¥0
                                                                                                                                                                   Ln 66, Col 51 Spaces: 4 UTF-8 CRLF () JavaScript 🗯
```



Each year level has a sorter.

This is the Code for Retrieve all published BSIS courses from the curriculum.

```
∠ IloydServer

   Run
JS api.js
               {} package.json
JS api.js > 🕅 BSITunsorted
       function BSISunsorted(req, res) {
          MongoClient.connect(uri)
               .then((client) => {
                  const db = client.db(dbName);
                   const collection = db.collection('courses');
                   const query = {
                       $or: [
                           { "1st Year.tags": "BSIS" },
                           { "2nd Year.tags": "BSIS" },
                           { "3rd Year.tags": "BSIS" },
                           { "4th Year.tags": "BSIS" }
                   collection.find(query).toArray()
                       .then((result) => {
                           res.json(result);
                       .catch((err) => {
                           console.error('Error occurred while fetching BSIS data:', err);
                           res.status(500).send('Internal Server Error');
                       .finally(() => {
                           client.close();
               .catch((err) => {
                   console.error('Error occurred while connecting to the database:', err);
                   res.status(500).send('Internal Server Error');
```

Here are the output:

And thi is the Code for Retrieve all published BSIT courses from the curriculum.

```
Go Run

∠ lloydServer

JS api.js
                {} package.json
 JS api.js > ...
       function BSITunsorted(req, res) {
           MongoClient.connect(uri)
                .then((client) => {
                    const db = client.db(dbName);
                    const collection = db.collection('courses');
                    const query = {
                        $or: [
                              "1st Year.tags": "BSIT" },
                            { "3rd Year.tags": "BSIT" },
                            { "4th Year.tags": "BSIT" }
                    collection.find(query).toArray()
                        .then((result) => {
                            res.json(result);
                        .catch((err) => {
                            console.error('Error occurred while fetching BSIT data:', err);
                            res.status(500).send('Internal Server Error');
                        .finally(() => {
                            client.close();
                .catch((err) => {
                    console.error('Error occurred while connecting to the database:', err);
                    res.status(500).send('Internal Server Error');
```

Here are the output:

